#### **Question Booklet Alpha Code**



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Total Number of Questions: 100 Time: 90 Minutes

Maximum Marks: 100

#### **INSTRUCTIONS TO CANDIDATES**

- 1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. **A, B, C** & **D**.
- 2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
- The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
- 4. If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
- 5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
- 6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
- 7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
- 8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work
- 9. Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.
- 10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
- 11. Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.
- 12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
- 13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

**A** -2-

1	In the following solid objects which has 5 tr	iand	nular faces ?	
	A) Pentagonal prism		Pentagonal pyran	nid
	C) Hexagonal pyramid		Hexagonal prism	
		,		
2.	The tool used to draw vertical lines by slidir	•		
	A) Protractor	,	Flexi curve	
	C) Compass	D)	Set square	
3.	The conversion of 600 mm in 1 : 20 scale is	s re	lated with normal s	scale is
	A) 30 cm	B)	3 cm	
	C) 6 cm	D)	60 cm	
4.	Where is the front elevation placed in first a	anal	e projection ?	
	A) Above the plan	_	Below the plan	
	C) Right side to the plan	,	Left side to the pla	an
_				
5.	In the given choices which one is a four-side equal but not at right angle?	iea	figure in which all	the sides are
	A) Trapezium B) Rectangle	C)	Rhombus	D) Square
	7, Trapozium 2, Troctangio	0)	Tillombac	b) equale
6.	Which of the following statement is not true			
	A) Dimension lines should not cross other			
	B) Centre lines should not be used as dime		ion lines	
	C) Dimension lines are continuous thick lin		ing purposes	
	D) Hidden lines may be avoided for dimens	SIOI	ing purposes	
7.	The sizes of letters and numerals in drawin	g fo	or Sub-titles and he	eadings are
	A) 12, 13, 14 and 15	B)	6, 8, 10 and 12	
	C) 2, 3, 4 and 5	D)	3, 4, 5 and 6	
8.	The scale which shows only two consecutive	ve u	ınits is	
	A) Diagonal scale	B)	Vernier scale	
	C) Plain scale	D)	Isometric scale	
9	Which of the following rules related to measure	SHIP	ement is false ?	
Ο.	A) The measurement should be for the fini			
	B) The method of measurement may not b			
	C) The dimensions should be entered in th			Height or Thickness
	D) The description of item should be self e			3
	•	•	-	

10.	An estimate is prepar	ing from the following	da	ta Drawing, Rate a	ınd	
	A) Labours		B)	Specification		
	C) Materials		D)	Transportation		
11.	The tolerances in me	asurements and calcu	ılati	ons for weights sh	oulc	d be
	A) 1 tonne		B)	0.1 tonne		
	C) 0.01 tonne		D)	0.001 tonne		
12.	Some changes or add from the originally ap					
	A) Revised estimate			Complete estimate		arca.
	C) Supplementary es		,	Quantity estimate		
			ŕ	•		
13.	is the a party.	amount paid every yea	ar to	owards the capital	inve	ested by a
	A) Annuity	B) Mortgage	C)	Sinking fund	D)	Capital value
14.	The measurement of	brick work should be	tak	en to nearest		
	A) 0.04 m	B) 0.03 m	C)	0.02 m	D)	0.01 m
15.	Rate analysis of any i	item depends on Labo	our,	cost of material a	nd	
	A) escalation in cost		B)	miscellaneous		
	C) sundries		D)	contractors profit		
16.	The term	is used to de	esig	nate a procedure	of va	aluing an item
	on the basis of the ma	aterials and labours u	sed	actually.		
	A) sub work		B)	prime work		
	C) hour work		D)	day work		
17.	The term	is used to denot	e th	e actual amount ir	ncur	red in
	producing a commod	ity.				
	A) price	B) value	C)	cost	D)	money
18.	For painting, areas sh	nould be worked out				
	A) nearest to 1.25 m <sup>2</sup>	2	B)	nearest to 1.0 m <sup>2</sup>	:	
	C) nearest to 0.25 m <sup>2</sup>	2	D)	nearest to 1.5 m <sup>2</sup>		

19.	The value of the prop broken into pieces is		rde	d at the end of utili	ity p	eriod, withou	t
	A) sentimental value		B)	potential value			
	C) speculative value		D)	salvage value			
20.	For measurement of A) 1328-1970	stone work B) 200-1974				e followed. 617-1969	
21.	The process of taking A) Dressing	g out stones from natu B) Quarrying		rock is known as Cladding	D)	Weathering	
22.	A tool used to check	the verticality of the s	truc	ture is called			
	A) Mason' square	,		Trowel			
	C) Plumb bob		D)	Spirit level			
23	Hydraulicity is the pro	operty of lime					
20.	A) To set and harder	•	B)	To get cracked in	nme	diately	
	C) To provide glossy		,	To set in absence		-	r
24.	The timber piece who	ose breadth and thick	ness	s exceeds 50 mm.	but	are less than	n
	200 mm in length is o			,			•
	A) Batten		B)	Scantling			
	C) Baluk		D)	Pole			
25.	Which of the following	g stress can Plain cer	nen	t concrete endure	?		
	A) Compressive stre	ss					
	B) Shear stress						
	C) Tensile stress	oive and cheer atrees	20				
	D) Tensile, compress	sive and shear stress	28				
26.	Which one of the follo	owing mechanical pro	pert	ies enables a met	al to	be made in	
	to thin sheets?  A) Hardness		B)	Ductility			
	C) Toughness		,	Malleability			
07	, .	, of	,	,			
21.	Cast iron is a product  A) Blast furnace	LOI	B١	Cupola			
	C) Bessemer conver	ter	,	Open hearth furn	ace		
	-, ====================================		·	- 12 211 113 31 111 1311			
Α		-5	-				

28.	Which of the following	g types of glasses is a	lso	known as hard-gla	ass?
	A) Soda-lime glass		B)	Potash-lead glass	S
	C) Common glass		D)	Potash-lime glass	3
29.	The process of coating from rusting is called	g iron or steel sheets	wit	h a thin coat of Zir	nc to prevent iron
	A) Metal cladding		B)	Galvanisation	
	C) Electroplating		D)	Tinning	
30.	The most commonly time is	used admixture which	pro	olongs the setting a	and hardening
	A) Gypsum		B)	Sodium silicate	
	C) Calcium chloride		D)	All of the above	
31.	The horizontal layer o	of mortar upon which I	oricl	ks are laid in a brid	ck masonry is
	A) Butt joint		B)	Lap joint	
	C) Bed joint		D)	Closer joint	
32.	Sand does not show	any bulking when			
	A) Partially saturated		B)	Contains small ar	mount of impurities
	C) Voids are partially	filled with air	D)	Completely satura	ated
33.	A brick laid with its lei	ngth parallel to the fac	ce o	f the wall is called	
	A) Header	B) Stretcher	C)	Perpends	D) Closer
34.	A projecting stone wh	iich is usually provide	d to	serve as support	for roof truss is
	A) Course	B) Coping	C)	Cornice	D) Corbel
35.	What is the name of rA) Turning piece	nember that supports B) Props		boards in the cen	tering of arches?  D) Lagging
36.	Arch constructed ove	r a wooden joist or fla	t ar	ch is known as	
	A) Pointed arch	,		Segmental arch	
	C) Relieving arch		,	Stilted arch	
	,		,		

37.	What is a rafter provid  A) Jack rafter	-	•	D) Principle rafter
38.	Which one is an isola  A) Pad footing  C) Combined footing	ted footing for a colur	nn ?  B) Strip footing  D) Wall footing	
39.	The external jamb of known as	a door or a window o <sub>l</sub>	pening at right angles	to the wall face is
	A) Sill	B) Reveal	C) Rebate	D) Panel
40.	A vertical window bui  A) Gable window	It in the sloping side o	·	D) Corner window
41.	Tapering step are use  A) Splayed step	ed to change the direct B) Commode	ction of flight is C) Winder	D) Bullnose step
42.	What is the weight pe A) 0.22 kg/m	er metre length of 6 m B) 0.39 kg/m		· ? D) 1.58 kg/m
43.	What is the minimum the nominal diameter A) 1.00 time C) 2.00 times		ntres of any two adjac B) 1.50 times D) 2.50 times	cent rivet holes to
44.	The bond in which he A) Flemish bond	eaders and stretchers  B) English bond	are laid in alternate co	ourse is known as  D) Header bond
45.	Removable of probs to A) 7 days	to slabs spanning up t B) 14 days	to 4.5 m is C) 3 days	D) 21 days
46.	The type of flooring p  A) Linoleum floor	erfectly noiseless and B) Rubber floor	d is used in theatre is (C) Cork floor	named as D) Glass floor
47.	Compressive strength expressed in	_		
	A) 10 N/mm <sup>2</sup>	B) 15 N/mm <sup>2</sup>	C) 20 N/mm <sup>2</sup>	D) 25 N/mm <sup>2</sup>

**A** -7-

48.	Recommended slump of concrete for road	cor	nstruction is
	A) 20 to 40 mm	B)	40 to 50 mm
	C) 80 to 150 mm	D)	90 to 100 mm
49.	The diagonal piece of timber used to give	rigio	lity to the framework is known as
	A) Sheeting	B)	Bracing
	C) Ledger	D)	Ranger
50.	Beam is used for the span is more than 20	m	and load is heavy is called
	A) Rolled steel Joist	B)	Floor Beam
	C) Lintel	D)	Plate girders
51.	Which stone joint is used in structures like	sea	wall where lateral pressure is more?
	A) Butt joint	B)	Rebated joint
	C) Tabled joint	D)	Rusticated joint
52.	Which is useful for large number of people to floor?	or	vehicles are to be moved from floor
	A) Stair	B)	Ramp
	C) Ladder	D)	Lift
53.	The most accurate and common method for tape is called	or m	neasuring distance with a chain or
	A) Chaining	B)	Pacing
	C) Ranging	,	Odometer
54.	Revenue chain is commonly used for mea-	suri	ng field in
	A) Topographical survey		
	B) City survey		
	C) Cadastral survey		
	D) Location survey		
55.	The size of chain survey field book is		
	A) 20 cm × 20 cm		
	B) 20 cm × 12 cm		
	C) 120 cm × 20 cm		
	D) 20 cm × 1.2 cm		

56.	. The bearing of line in the direction of the progress of survey is called				
	A) Four bearing	B) Back bearing			
	C) Backward bearing	D) Forward bearing			
57.	The horizontal angle which the magnetic	neridian makes with the true meridian is			
	A) Magnetic declination	B) Dip			
	C) Inclination	D) None of these			
58.	In plane table surveying me points only.	ethod is used for locating the station			
	A) Traversing	B) Radiation			
	C) Intersection	D) Resection			
59.	is a fixed reference poi	nt of known elevation.			
	A) Bench mark				
	B) Change point				
	C) Back Sight				
	D) Reduced Level				
60.	The process of tracing contour lines on the	surface of the earth is called			
	A) Horizontal equivalent				
	B) Contour interval				
	C) Contouring				
	D) Contour map				
61.	Multiply the length of the line by the Cosine	e of its reduced bearing gives			
	A) Latitude	B) Departure			
	C) Angle	D) Length			
62.	are regular bends provided in railways etc. to bring about the gradual characteristics.				
	A) Straight	B) Tangent			
	C) Long chords	D) Curves			

63.	In a ranging process the surveyor gives a above head and then brought down' it me	
	A) Correct	
	B) Fix the rod	
	C) Moves slowly	
	D) Continue to move to the left	
64.	Which instrument is a combination of EDN	I, electronic theodolite and
	micro processor ?	
	A) Total Station	B) Tacheometer
	C) Distomite	D) Tellurometer
65.	GPS stands for	
	A) Global Positioning System	
	B) Global System Post	
	C) Geographic Positioning System	
	D) None of these	
66.	is used for orienting th	e plane table to magnetic north.
	A) Spirit level	B) Alidade
	C) Plumb bob	D) Compass
67.	Which method of irrigation is called trickle	irrigation ?
	A) Furrow	B) Sprinkler
	C) Drip	D) Border strip
68.	What is the name of the impervious barrie	r constructed across a perennial river to
	raise the water level on the upstream side	?
	A) Barrage	B) Weir
	C) Notch	D) Mouth piece
A	-1	0-

69.	What is the total depth of water required by field ?	a	crop during the entire period in the
	A) Duty	B)	Base period
	C) Delta	D)	Crop period
70.	Which crops are sown in autumn season a	nd l	narvested in spring season?
	A) Kharif	B)	Zaid
	C) Rabi	D)	None of these
71.	What is the name for accumulation of water	r in	the form of an artificial lake ?
	A) Spill ways	B)	Barrages
	C) Groynes	D)	Reservoir
72.	When does hydrograph called as unit hydrograph	ogra	aph ?
	A) 1 cm of runoff from rainfall		
	B) 3 cm of runoff from rainfall		
	C) 1 mm of runoff from rainfall		
	D) 3 mm of runoff from rainfall		
73.	Where did the Central Road Research Inst	itute	e started ?
	A) Lucknow	B)	Nagpur
	C) New Delhi	D)	Mumbai
74.	What is the restriction given to lengthy stra	ight	routes while setting road alignment?
	A) Minimum		
	B) Maximum		
	C) Depends on gradient		
	D) Depends on rise and fall		

75.	Which alternative road is provided to dive	rt traffic to avoid obstruction?
	A) Ring	B) Loop
	C) Trunk	D) By pass
76.	What is another name of continuous bay construction?	method in cement concrete road
	A) Alternate	B) Strip
	C) Expansion	D) Traverse
77.	What is the process for filling the ballast a	around the sleepers ?
	A) Creep	B) Turn table
	C) Boxing	D) Coning
78.	What is the length of bull-headed rail?	
	A) 16.7 m	B) 18.29 m
	C) 18.6 m	D) 19.2 m
79.	Which warner signal is first seen by the d	river in railway station ?
	A) Disc signal	B) Home signal
	C) Outer signal	D) Routing signal
80.	Which foundation is provided for heavy w level of standing water surface ?	orks at a depth of 12 m to 15 m below the
	A) Raft	B) Caisson
	C) Coffer dam	D) Combined
Α		12-

81.	The horizontal tunnels constructed at shall	ow	depths along the banks of the river to
	intercept the ground water table are called		
	A) Springs	B)	Canals
	C) Lakes	D)	Infiltration galleries
82.	The growth of population may be convenie	ntly	represented by
	A) Straight line curve	B)	Semi-logarithmic curve
	C) Logistic curve	D)	All of the above
83.	For an area developed in haphazard way, of pipe is known as	the	type of layout used for the distribution
	A) Dead end system	B)	Ring system
	C) Grid iron	D)	Radial system
84.	For the sewers of diameter less than 600 n	nm	the type of joint preferred is
	A) Collar joint	B)	Spigot and socket joint
	C) Bandage joint	D)	Mechanical joint
85.	The privy pit should be located at least water supply.		from the well or other ground
	A) 50 m	B)	10 m
	C) 3 m	D)	30 m
86.	The spacing of manholes for pipes having	a di	ameter greater than 2 m is
	A) 150 – 200 m	B)	90 – 150 m
	C) 300 m	D)	45 – 90 m
87.	The capacity of a strained body for doing was called	vork	on the removal of the straining force
	A) Resilience	B)	Strain energy
	C) Impact energy	D)	Proof stress

88.	When a bar is subjected to a change in temperature and its deformation is prevente the stress induced in the bar is		
	A) Tensile stress	B) Compressive stress	
	C) Shear stress	D) Thermal stress	
89.	e diagonal of a cube is $4\sqrt{3}$ cm. Find the surface area of the cube.		
	A) 90 cm <sup>2</sup>	B) 96 cm <sup>2</sup>	
	C) 64 cm <sup>3</sup>	D) 96 cm <sup>3</sup>	
90.	A machine having an efficiency greater than 50% is known as		
	A) Reversible machine		
B) Neither reversible nor non-reversible machine		achine	
	C) Ideal machine		
	D) Non-reversible machine		
91.	One watt is equal to		
	A) 0.1 joule/s	B) 1 joule/s	
	C) 10 joules/s	D) 100 joules/s	
92.	When the spring of a watch is wound, it will	hen the spring of a watch is wound, it will possess	
	A) Strain energy	B) Kinetic energy	
	C) Heat energy	D) Mechanical energy	
93.	Which year does first micro processor was invented?		
	A) 1970	B) 1971	
	C) 1972	D) 1973	
94.	What is the extension file of note pad ?		
	A) .TEXT	B) .DOC	
	C) .BMP	D) .XLS	

95.	Choose from the following is not an analytical entity.		
	A) Line	B) Arc	
	C) Spline	D) Parabola	
96.	The shortcut for mirror command is		
	A) M	B) MC	
	C) MIR	D) MI	
97. In which system of drawing in CAD the line can be drawn with dis		can be drawn with distance and angle?	
	A) Relative co-ordinate		
	B) Polar co-ordinate		
	C) Cartesian co-ordinate		
	D) Absolute co-ordinate		
98.	3. What is the lowest RAM in which Auto CAD 19 will work?		
	A) 1GB	B) 2GB	
	C) 3GB	D) 4GB	
99.	9. What is the highest dots per inch (DPI), one can print a drawing?		
	A) 800 dpi	B) 1000 dpi	
	C) 1200 dpi	D) 1400 dpi	
100. What is the use of 'Q' shortcut key in Auto CAD?		CAD?	
	A) Quit	B) Quick calc	
	C) Save as	D) 'Q' leader	

Space for Rough Work

**A** -16-